



United States Department of the Interior

BUREAU OF LAND MANAGEMENT
GRAND JUNCTION DISTRICT
BRANCH OF OIL SHALE
764 HORIZON DRIVE
GRAND JUNCTION, COLORADO 81501

IN REPLY REFER TO

7-121

U-25918

U-26194

Memorandum to Files

August 5, 1983

From: John Miley, Mining Engineer

Subject: Tract U-a/U-b Inspection - Mining

Personnel Present: Bob Hobbs - WROSC
John Miley - BLM/OS

RECEIVED
AUG 22 1983

DIVISION OF
OIL, GAS & MINING

ACTIVITIES

Mining: Advance was made in the "B" (run-around) and "C" (second leg) Declines. Conventional drill, blast, and muck cycles are used in the advance of these two Declines. The roof and ribs are rougher than the main Decline where the mine machine was used, but the ground is strong and stable. The Declines were extensively rock-bolted and shot-crete was being applied 2 inches thick to roof and ribs.

Further advance will be made in the "A" (main) Decline when grouting is commenced from the "B" Decline into the Bird's Nest Aquifer. Upon completion of the "A" Decline, the mining machine will be completely rebuilt.

The shaft bottom was at 466 feet. An advance of 80 feet was made in the previous week.

Don Johnson
Acting Branch Chief

xc: Dean Evans - BLM Vernal
T. Portal - UDOGM
J. Godlove - Ua/Ub
J. Goff - Ua/Ub
B. Hobbs - Ua/Ub



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August 5, 1983

From: Glen A. Miller, Hydrologist

Subject: Tract U-a/U-b Inspection - Recon. of Temperature Profile in
Selected Monitoring Wells

Personnel Present: Glen A. Miller - BLM/OSO
Swain Munson - VTN
Bill Hail

ACTIVITIES

Well G-5 -- Logged to 493 feet (approximate top of perforation), apparent obstruction at that depth, but because of light-weight sounder unit depth not definitive. Temperature range 16.2-16.3°C. Water Level 466 ft. below surface.

Well G-11 -- Logged to about 604 feet, apparent obstruction at that depth. Temperature range 16.3-17.4°C. Water level 473 ft. below surface.

Well P-3 -- Logged to about 552 feet, temperature range 15.5-16.2°C. Depth to water about 462 ft. below surface.

Well P-2 (lower) -- Logged to about 540 feet, apparent obstruction at that depth. Temperature range 13.5-17.0°C.

Temperature regime of these wells not disturbed by pumping or sampling for several years; probably at equilibrium. Temperature gradients suggest vertical flow of water in wells G-11, P-3, and P-2 (lower). Gradient in G-5 not conclusive because perforated interval was not logged. Interpretation of thermal gradients is critical to proper sampling and water-quality conclusions from these wells. It is reasonable to expect that other monitoring wells at Ua/Ub will, (1) show obstructions that could interfere with obtaining water samples planned for the near future, and (2) show thermal gradients suggestive of vertical flow, which must be taken into account in planning for sampling.

Glen A. Miller

xc: T. Portal - UDOGM
J. Godlove - Ua/Ub
J. Goff - Ua/Ub
D. Evans - BLM Vernal